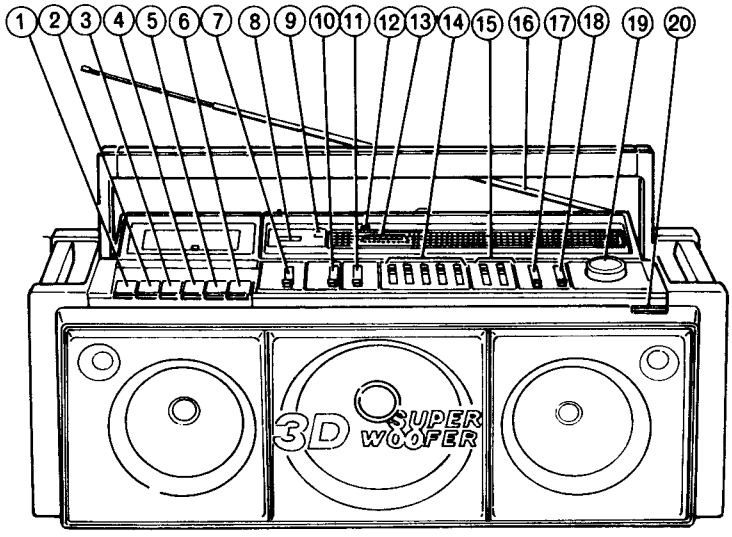
HITACHI
SERVICE MANUAL

TK	No. 2151E

TRK-7620E/E(BS)

TN-33ZHC-558 chassis



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KEY TO ILLUSTRATIONS

1. RECORD BUTTON
2. PLAYBACK BUTTON
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17. FUNCTION SELECTOR
18. AM BAND SELECTOR
19. TUNING CONTROL
20. BUILT-IN MICROPHONE (MONAURAL)

SAFETY PRECAUTION

The following precautions should be observed when servicing.

1. Since many parts in the unit have special safety-related characteristics, always use genuine Hitachi's replacement parts. Especially critical parts in the power circuit block should not be replaced with other makes. Critical parts are marked with ⚠ in the schematic diagram, and circuit board diagram.
2. Before returning a repaired unit to the customer, the service technician must thoroughly test the unit to ascertain that it is completely safe to operate without dangerof electrical shock.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

HIGH PERFORMANCE PORTABLE CREATIVE SOUND SYSTEM

July 1984 **TOKAI WORKS**

SPECIFICATIONS

■ GENERAL SPECIFICATIONS

Power Supply

AC	220V, 50 Hz [E] 240V, 50 Hz [E(BS)]
Batteries	DC 12V (8 x UM-1, "D" size, IEC R20 or equivalent)
Car Battery	DC 12V via car adaptor "HITACHI D-74" (This car adaptor may not be available in some countries.)
Power Consumption	See destination chart
Dimensions (W x H x D)	544 x 197 x 195 mm
Weight	5.3 kg (including battery)
Semiconductors	ICs: 6 Transistors: 12 [E] 13 [E(BS)] Diodes: 18 LEDs: 6 Varicarp: 1

■ AUDIO AMPLIFIER SECTION

Audio amplifier-speaker system

Multi-channel 3 independent main amplifiers and 3-way 5-Multi speaker system (3D system)

Middle and High frequency bands

Main amplifiers	Stereo main amplifiers
Drive speakers	Pair of 120 mm bass units Pair of 20 mm ceramic tweeter units

Low frequency band

Main amplifier	BTL monaural main amplifier
Drive speaker	160 mm super-bass unit
Acoustic crossover frequency between 2 channel amplifiers/speaker system	150 Hz
Power Output	14 watts (3W + 3W + 8W) (RMS, DC, THD 10%) 22 watts (M.P.O.)
Harmonic Distortion	0.8% (at 1/2 rated output) (Stereo amplifiers and BTL monaural amplifier)
Graphic Equalizer Control Effect	5 band controls 60 Hz ±6 dB 250 Hz ±6 dB 1 kHz ±6 dB 3.5 kHz ±6 dB 10 kHz ±6 dB

■ TUNER SECTION

Circuit System	FM/SW/MW/LW 4-band superheterodyne
Tuning Range :	FM : 87.5 to 108 MHz SW : 6 to 18 MHz MW : 530 to 1605 kHz LW : 150 to 285 kHz
Sensitivity :	FM : 4μV (S/N = 30 dB) 2μV (Maximum) SW : 50μV (S/N = 20 dB) 30μV (Maximum) MW : 300μV/m (S/N = 20 dB) 100μV/m (Maximum) LW : 700μV/m (S/N = 20 dB) 250μV/m (Maximum)
Intermediate Frequency :	FM : 10.7 MHz SW/MW/LW : 465 kHz
Antennas (Aerials) :	FM/SW : Telescopic antenna (aerial) MW/LW : Built-in ferrite-core antenna (aerial)

■ CASSETTE DECK SECTION

Tape	Compact Cassette (C30, C60, C90)
Tracks	4-track (2-channel stereo)
Tape Speed	4.75 cm/sec
Recording System	AC bias 55 kHz
Erase System	Quasi AC
Playback Frequency Response	Metal tape: 60 – 12,000 Hz (HITACHI ME90) High bias tape (Chromium tape): 60 – 11,000 Hz (HITACHI SX90, HITACHI EX90) Normal tape: 60 – 10,000 Hz (HITACHI DL90)
Crosstalk	
Between Tracks	65 dB
Between Channels	40 dB
Erase Ratio	60 dB
Distortion	3%
Fast Forward or Rewinding Time	105 sec.
Head	Hard Permalloy Rec/Play head
Motor	Electrical Servo DC motor

■ INPUT AND OUTPUT

Microphone (L/R)	
Sensitivity	0.6 mV (3.5 mm diameter jack)
Impedance	1.2 kohms
Line in (L/R)	
Sensitivity	500 mV
Impedance	680 kohms
Line out (L/R)	
Sensitivity	700 mV
Load Impedance	1 kohm
Headphone (3.5 mm diameter jack)	8 ohms – 2 kohms
Mixing Microphone	
Sensitivity	1 mV (3.5 mm diameter jack)
Impedance	10 kohms

DISASSEMBLY

1. Cassette lid

Push the cassette lid arm in the direction of the arrow using a flat-tip screwdriver and pull the cassette lid towards the from to remove it.

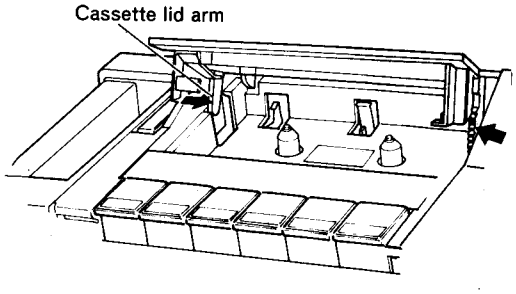


Fig. 1

2. Top panel

1) Remove 5 fixing screws Ⓐ .shown in figure 2, 3, 4.
2) Press the EJECT button to open the cassette lid and lift the top panel holding the telescopic antenna side to remove it.

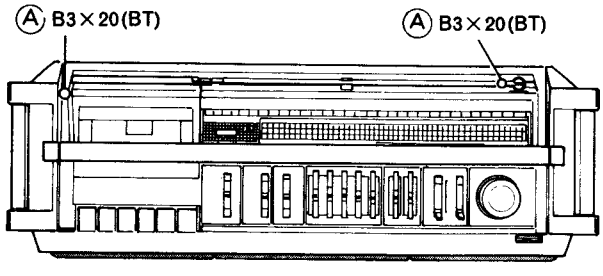


Fig. 2

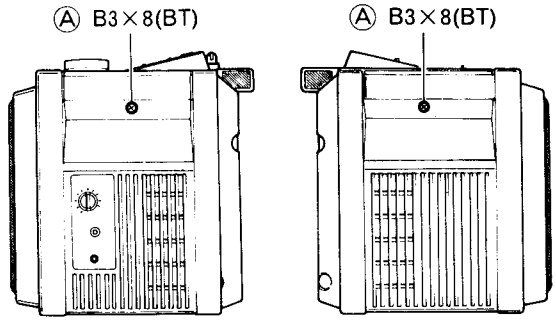


Fig. 3

3. Rear case

Remove 8 fixing screws Ⓑ .

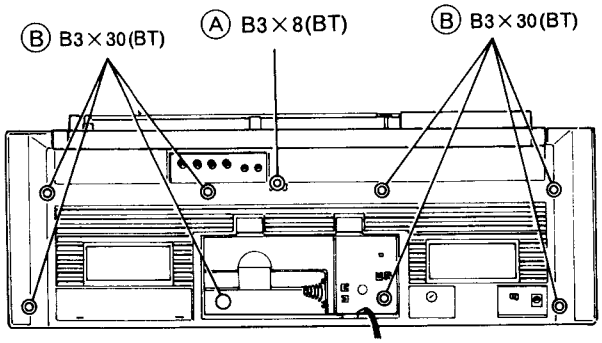


Fig. 4

4. Cassette chassis

Remove 4 fixing screws Ⓒ .

5. Main PC Board

Remove 5 fixing screws Ⓓ .

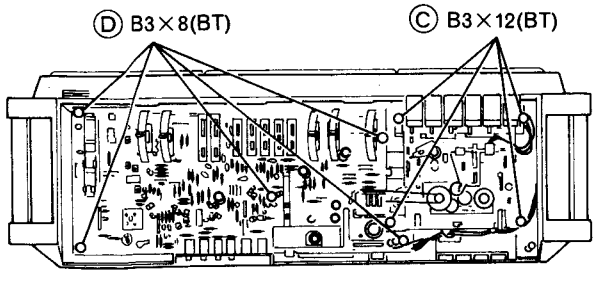


Fig. 5

6. Power PC Board

Remove 2 fixing screws Ⓔ and push the stopper Ⓕ .

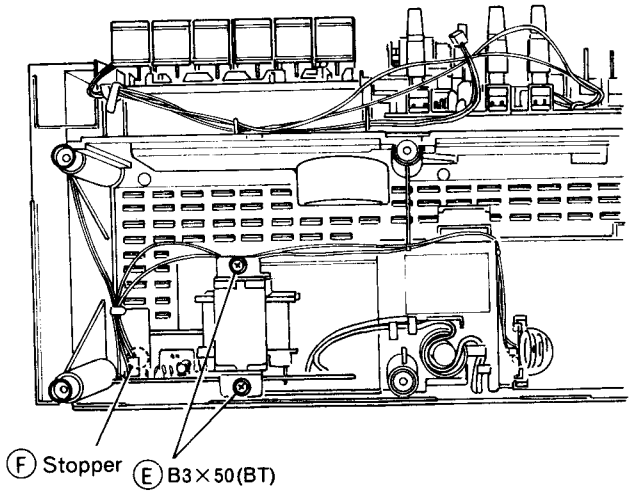


Fig. 6

7. Mix. mic/Headphone PC Bard

Remove Mixing mic volume knob and 2 fixing screws Ⓖ .

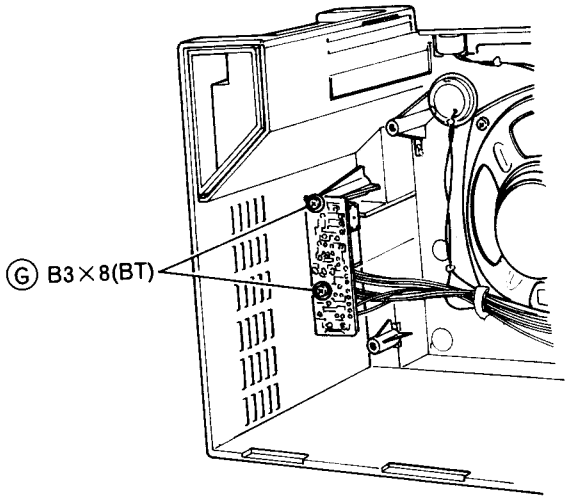


Fig. 7

8. Indicator PC Board

Push the 2 stoppers.

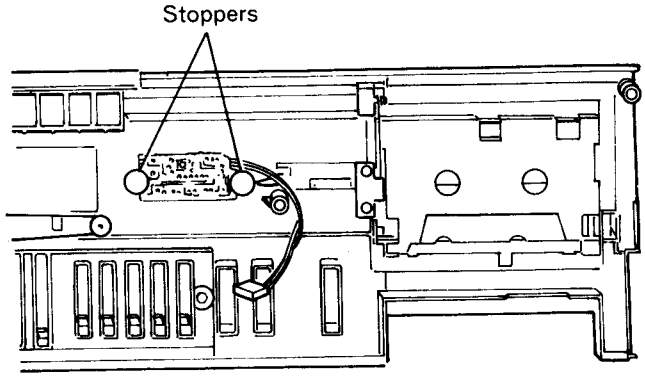


Fig. 8

ADJUSTMENT

1. Tuner Section

* For West Germany

Step		Adjustment Item	Measuring Instrument and Connection			Genescope or Signal Generator Frequency	Dial Pointer Position	Adjust	Reading
			Measuring Instrument	Input Terminal	Output Terminal				
1	(1)	FM IF	Turn T202 fully counterclockwise.						
			• Genescope (10.7 MHz)	TP102	TP201	10.7 MHz	Highest	T101	Note 1
	(2)	S-Curve						T202	Note 2
2	(1)	FM OSC. (Covering)	• FM signal generator (400Hz, 30% mod.) • Oscilloscope • VTVM	TP101 (thru FM dummy antenna) (Note 3)	TP201	87 MHz (*87.5MHz)	Lowest	L102	Max.
	(2)					109 MHz (*108 MHz)	Highest	CT102	
	(3)					Repeat steps (1) and (2)			
3	(1)	FM ANT. (Tracking)				90 MHz	90 MHz	L101	Max.
	(2)					106 MHz	106 MHz	CT101	
	(3)					Repeat steps (1) and (2)			
4	(1)	FM MPX (Multiplex)	•Frequency counter	Connect a 10μF 25V electrolytic capacitor between the No.1 pin of IC301 and ground.	TP301	——	——	RT301	38 kHz ±50 Hz (Note 4)
5	(1)	AM IF	• Genescope (465 kHz)	Ferrite-core antenna (Note 5)	TP201	465 kHz	Highest	T201 T203	Note 6
	(2)					Repeat steps (1)			
6	(1)	LW OSC. (Covering)	• AM signal generator (400 Hz, 30% mod.) • VTVM	Ferrite-core antenna (Note 5)	TP201	145 kHz	Lowest	L156	Max.
	(2)					290 kHz	Highest	CT156	
	(3)					Repeat steps (1) and (2)			
7	(1)	LW ANT (Tracking)				160 kHz	160 kHz	L153	Max.
	(2)					270 kHz	270 kHz	CT153	
	(3)					Repeat steps (1) and (2)			
8	(1)	MW OSC. (Covering)	• AM signal generator (400 Hz, 30% mod.) • VTVM	Ferrite-core antenna (Note 5)	TP201	515 kHz	Lowest	L155	Max.
	(2)					1650 kHz	Highest	CT155	
	(3)					Repeat steps (1) and (2)			
9	(1)	MW ANT. (Tracking)				600 kHz	600 kHz	L152	Max.
	(2)					1400 kHz	1400 kHz	CT152	
	(3)					Repeat steps (1) and (2)			
10	(1)	SW OSC. (Covering)	• AM signal generator (400 Hz, 30% mod.) • VTVM	TP101 (thru SW dummy antenna) (Note 7)	TP201	5.8 MHz	Lowest	L154	Max.
	(2)					18.5 MHz	Highest	CT154	
	(3)					Repeat steps (1) and (2)			
11	(1)	SW ANT. (Tracking)				6.5 MHz	6.5 MHz	L151	Max.
	(2)					16 MHz	16 MHz	CT151	
	(3)					Repeat steps (1) and (2)			

Note :

1. Feed in a weak signal to TP102 from the genescope. Adjust T101 for maximum gain and the waveform indicated in Figure 9. If the center of the waveform cannot be lined up on the marker, adjust the right/left balance.

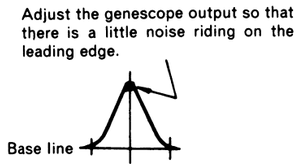


Fig. 9

2. Use the T202 core to form the S-curve shown in Figure 10. Adjust the symmetry of A and B about point C for linearity.

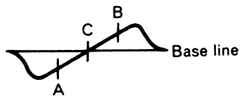
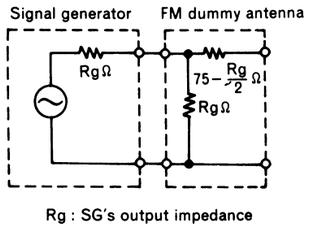


Fig. 10

3. FM dummy antenna shows Figure 11.



Rg : SG's output impedance

Fig. 11

4. Connect the frequency counter to TP301 and connect a 220kΩ resistor parallel with the frequency counter.

5. Connect AM signal generator to loop antenna, bring near to ferrite antenna.

6. Feed in a weak signal from the genescope. Adjust T201, T203 for maximum gain and the waveform of Figure 12.

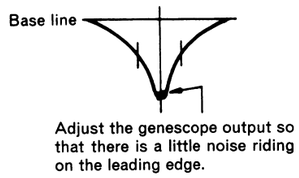
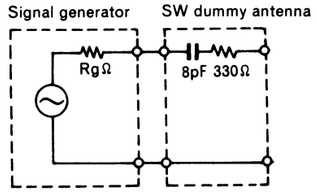


Fig. 12

7. SW dummy antenna shows Figure 13.



Rg : SG's output impedance

Fig. 13

2. Tape Recorder Section

Perform the following adjustments in the sequence stated after cleaning the head, pressure roller, and capstan with a head cleaning stick moistened in alcohol.

Step	Adjustment Item	Measuring Instrument and Connection			Check Tape	Mode	Adjusted Position	Adjusted Value	Remarks
		Measuring Instrument	Input Terminal	Output Terminal					
1	Tape speed	· Frequency counter	——	LINE OUT socket	Tape speed adjustment tape(3kHz)	Playback	Semivari-able resis-tor in the motor PC board	3kHz±20Hz	Note 1
2	Head azimuth	· VTVM	——	LINE OUT socket	Head azimuth adjustment tape(10kHz)	Playback	Azimuth adjusting screw	Output max.	Note 2

Note :

1. Adjust within 30 sec. after heat-running for more than 20 minutes.
2. When the maximum values of both channels are different, adjust to the maximum value of the L channel. In this case, the difference between the maximum values of both channels should be within 2 dB.

INSPECTION OF MECHANISM

Item	Check Item		Reference Value	Remarks
1	Pressure of pressure roller		350–550g	Measure in playback mode
2	Torque	Take-up	35–65g·cm	
		Fast forward	60–140g·cm	Measure in fast forward mode
		Rewind	60–140g·cm	Measure in rewind mode
3	Back tension	Supply side	2.0–6.0g·cm	Measure in playback mode (without counter belt)
		Take-up side	2.0–6.0g·cm	Measure in playback mode (with counter belt)
4	Button operation force	Playback button	1.7kg	——
		Fast forward button	1.0kg	
		Rewind button	1.0kg	
		Stop button	1.5kg	
		Record button	2.3kg	
		Pause button	1.5kg	
5	Flywheel thrust gap		0.1–0.3mm	——

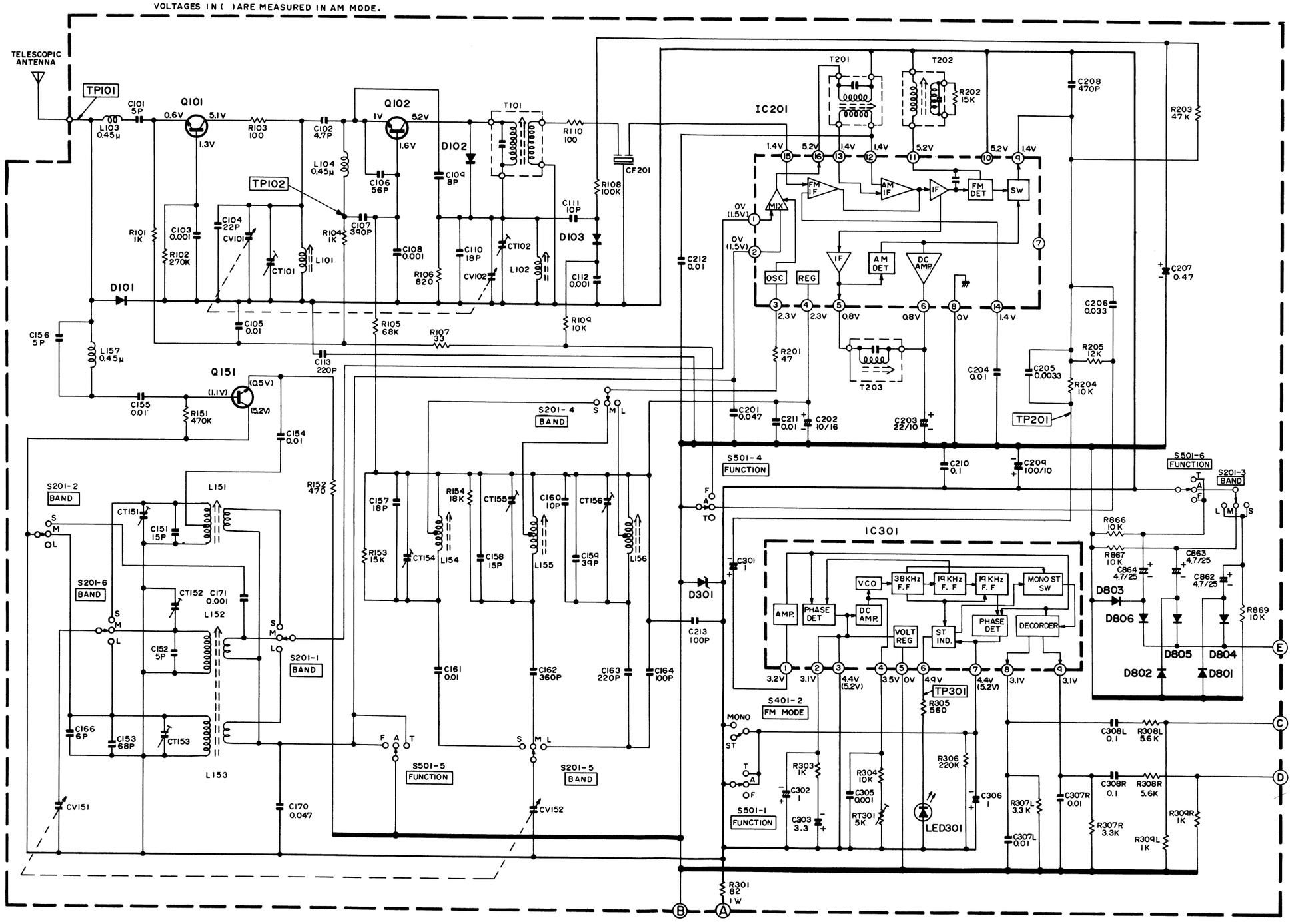
LUBRICATION

Lubricate one or two drops of oil to rotating point or lubricate grease to sliding point.
Lubricate the respective parts listed once every 1000 hours or once a year under normal conditions of use.
Avoid oiling them excessively, or rotation may become irregular because of oil splashes.

Lubrication		Oil or Grease
Rotary section	Metal and metal	Pan motor oil (10W-40)
	Mold and metal	Sonic slider oil (#1600)
Sliding section	Metal and metal	Hitasol (MO-138)
	Mold and mold Mold and metal	White grease (FL-LUBE-A)
Spring resonance prevention		Floil (GB-TS-1)

SCHEMATIC DIAGRAM (Tuner Section)

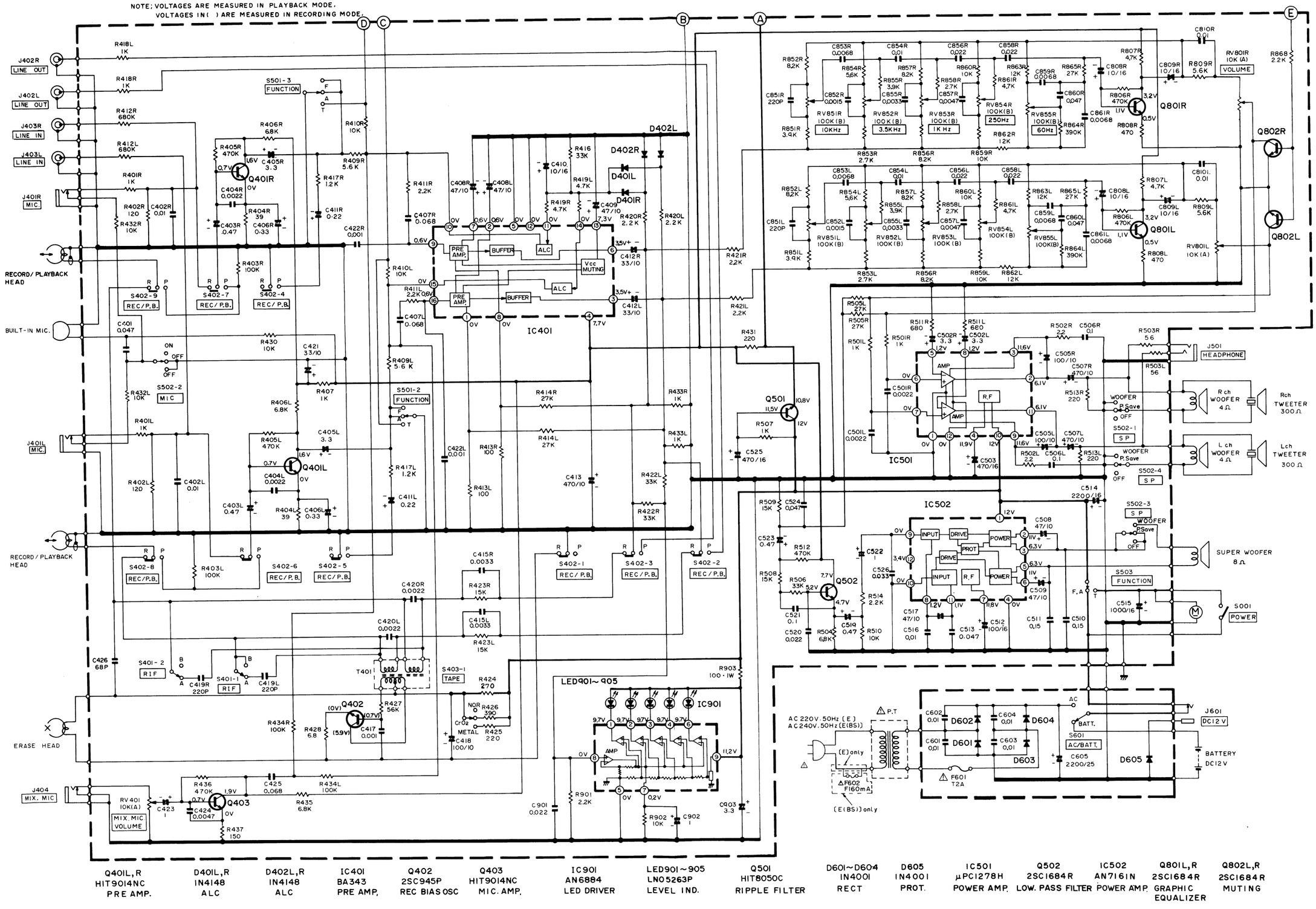
NOTE: VOLTAGES ARE MEASURED IN FM MODE.
VOLTAGES IN ( ) ARE MEASURED IN AM MODE.



D101	Q101	Q102	D102	D103	IC201	Q151	D301	LED301	IC301	D801 ~ D803	D804 ~ D806
IN4148	2SB535B	2SB535B	IN4148	IS2790	TA7640AP	HITQ011H	HZ5C1	LN217RP	AN7420	IN4148	IS2473
PROT.	FM RF AMP.	FM CONV.	LIMITER	AFC	FM/AM IF AMP. FM/AM DET.	SW RF AMP.	VOLT. STAB	FM STEREO IND.	FM MPX	MUTING	SWITCHING

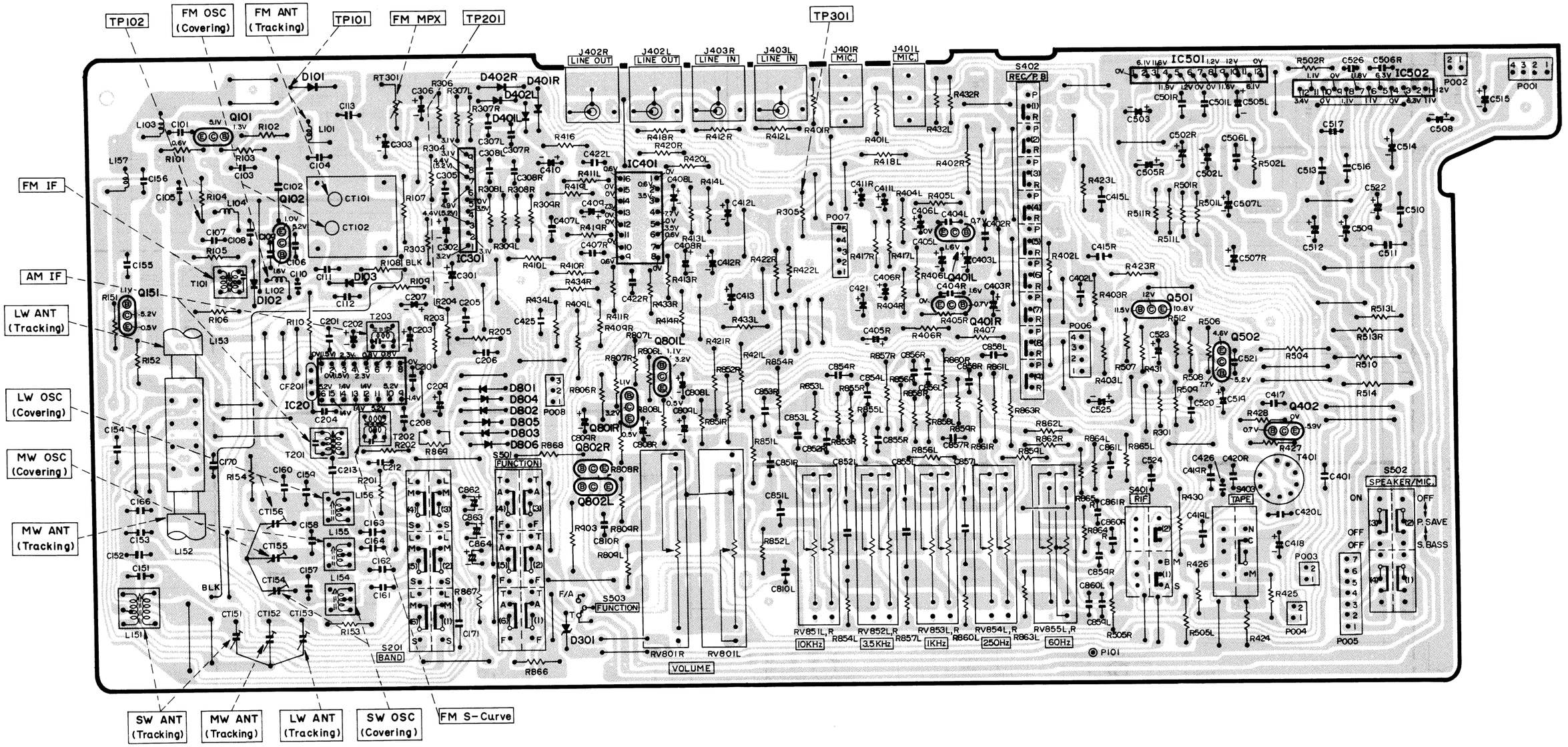
SCHEMATIC DIAGRAM (Tape/Audio Section)

NOTE; VOLTAGES ARE MEASURED IN PLAYBACK MODE.
VOLTAGES IN( ) ARE MEASURED IN RECORDING MODE.

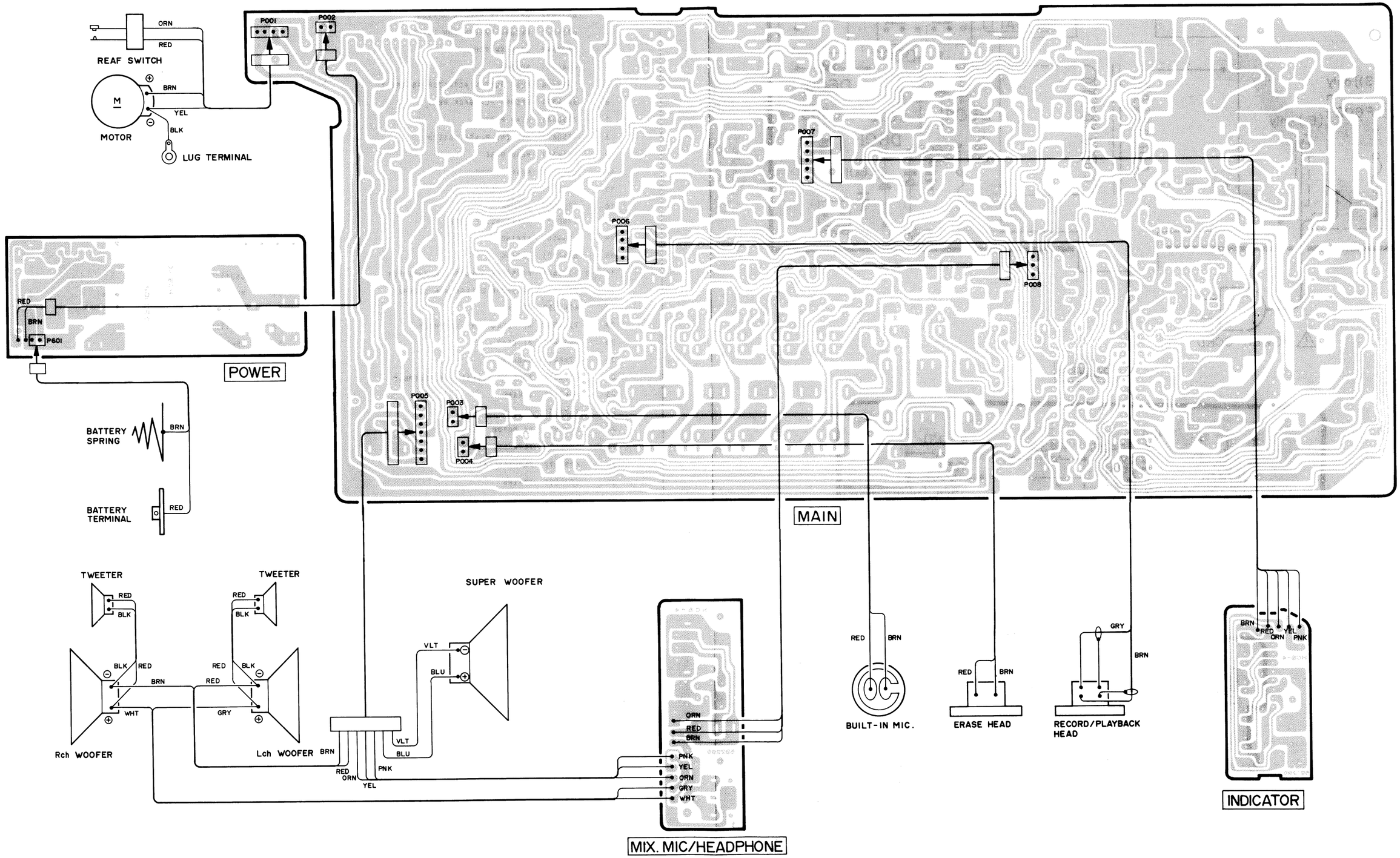


Q401L,R	D401L,R	D402L,R	IC401	Q402	Q403	IC901	LED901~905	Q501	D601~D604	D605	IC501	Q502	IC502	Q801L,R	Q802L,R
HIT9014NC	IN4148	IN4148	BA343	2SC945P	HIT9014NC	AN6884	LN05263P	HIT8050C	IN4001	IN4001	μPC1278H	2SC1684R	AN7161N	2SC1684R	2SC1684R
PRE AMP.	ALC	ALC	PRE AMP.	REC BIAS OSC	MIC. AMP.	LED DRIVER	LEVEL IND.	RIPPLE FILTER	RECT	PROT.	POWER AMP.	LOW. PASS FILTER	POWER AMP.	GRAPHIC EQUALIZER	MUTING

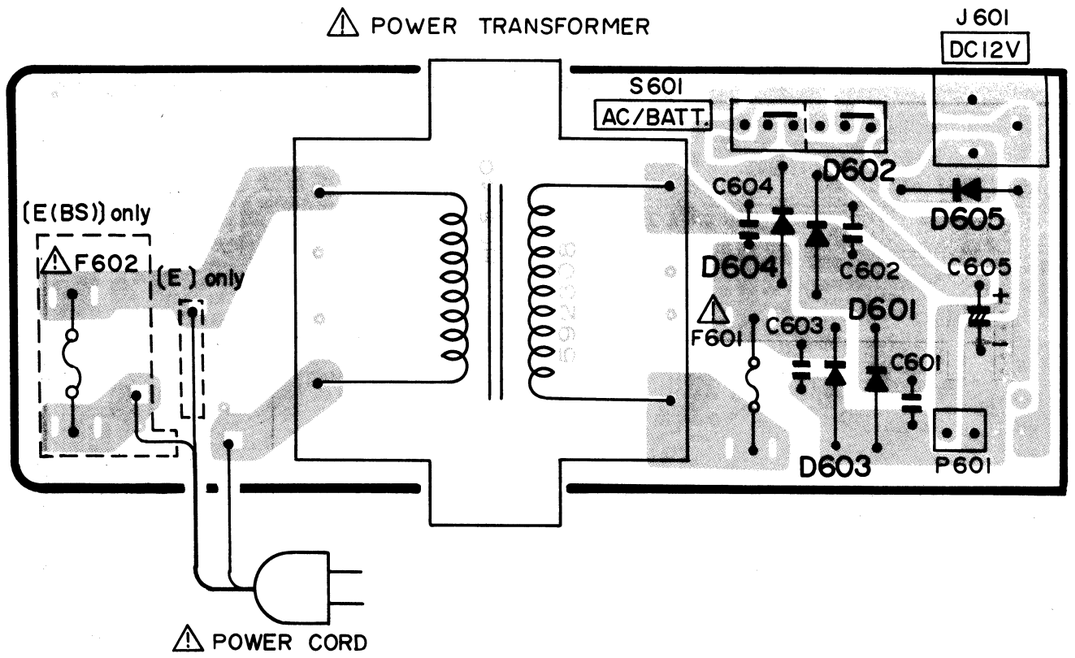
CIRCUIT BOARD DIAGRAM



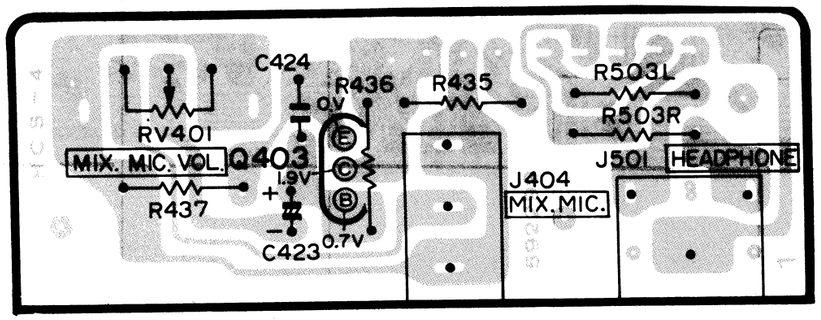
WIRING DIAGRAM



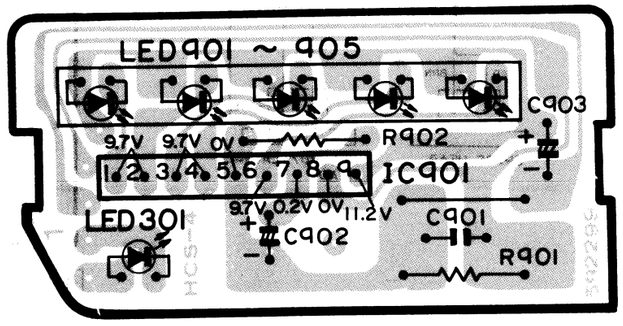
CIRCUIT BOARD DIAGRAM



POWER



MIX. MIC/HEADPHONE

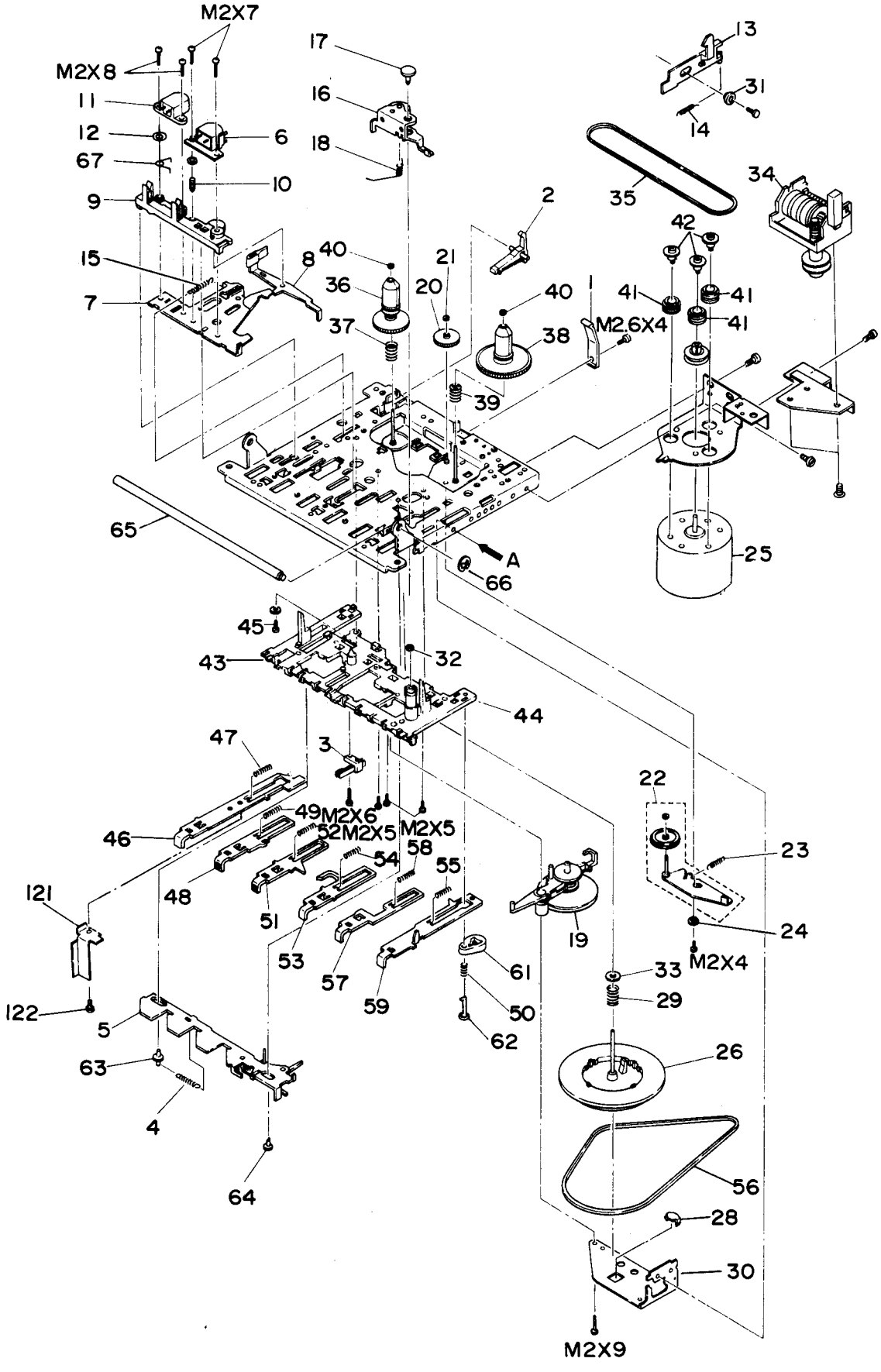


INDICATOR

REPLACEMENT PARTS LIST

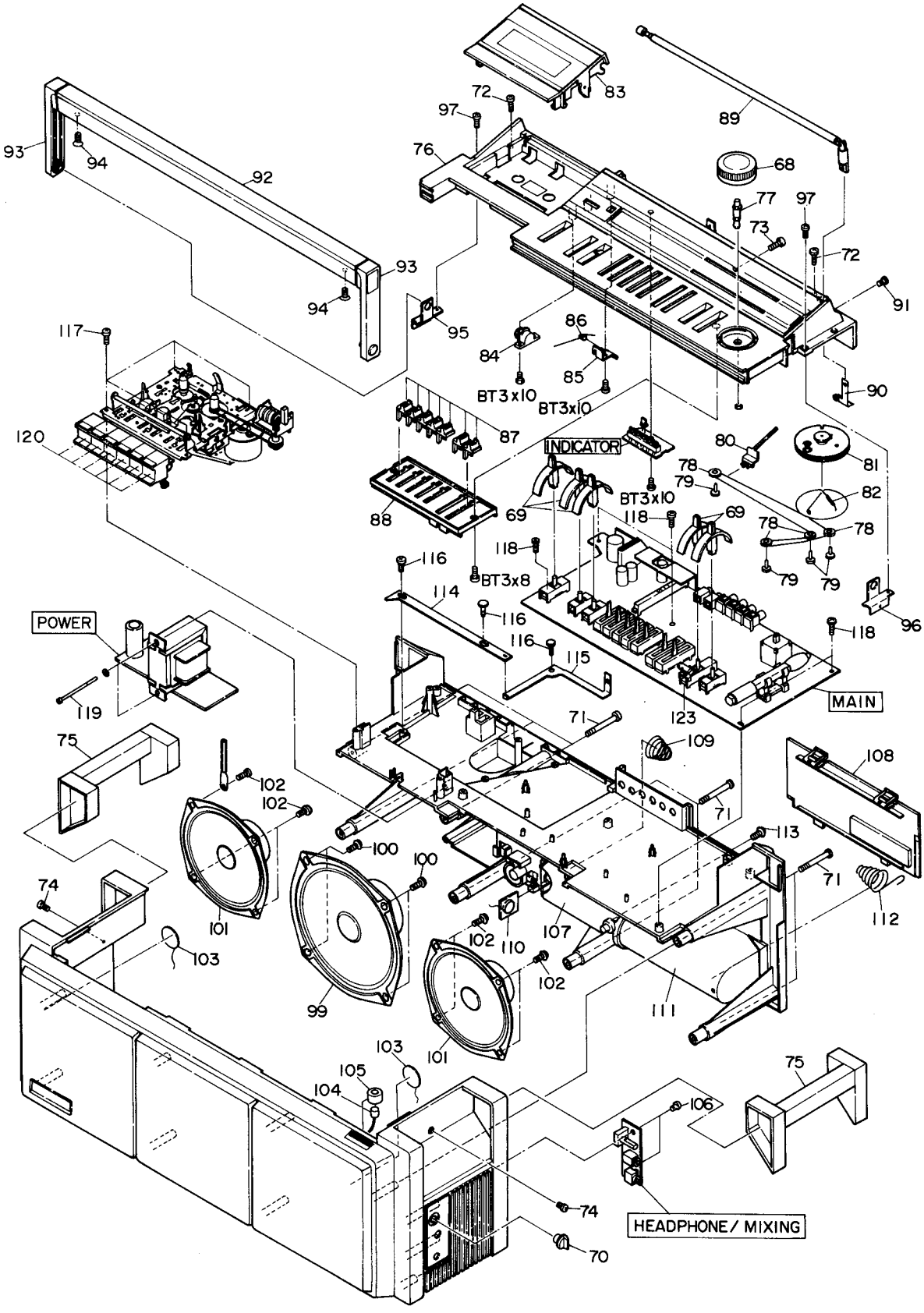
SYMBOL-NO	P-NO	DESCRIPTION
		FOR CHASSIS ASSEMBLY (TN-33ZHC-558)
1	6535092	CASSETTE HOLDER SPRING
2	6774321	RECORD PREVENTION LEVER
3	5603641	LEAF SWITCH
4	6544541	SPRING
5	7350594	PUSH BUTTON ACTUATOR ASSEMBLY
6	5449391	RECORD PLAYBACK HEAD
7	7350481	HEAD PLATE
8	7350851	SENSING PLATE ASSEMBLY
9	6774311	HEAD BASE
10	6521091	HEAD SPRING
11	5445371	ERASE HEAD
12	7786002	WASHER
13	6780171	EJECT SLIDE LEVER
14	6544581	SPRING
15	6542991	SPRING
16	7350841	PRESSURE ROLLER ARM ASSEMBLY
17	6774331	PRESSURE ROLLER ARM STOPPER
18	6548452	SPRING
19	7364581	RF PULLEY ARM ASSEMBLY
20	6432411	FF GEAR
21	7788441	WASHER
22	7350831	TAKE-UP ROLLER ARM ASSEMBLY
23	6542981	SPRING
24	7571751	COLLER
25	5577918	DC MOTOR ASSEMBLY
26	6774512	FLYWHEEL ASSEMBLY
28	6757372	FLYWHEEL PLATE
29	6521051	SPRING
30	7350442	FLYWHEEL HOLDER
31	7570681	EJECT COLLER
32	7787431	NYLON WASHER
33	7788442	WASHER
34	5559721	COUNTER
35	6356221	COUNTER BELT
36	6774361	SUPPLY REEL ASSEMBLY
37	6521061	BACK TENSION SPRING
38	6774502	TAKE-UP REEL ASSEMBLY
39	6521061	BACK TENSION SPRING
40	7788443	WASHER
41	6590791	MOTOR RUBBER
42	7547561	SPECIAL SCREW
43	6778081	BUTTON BASE (R)
44	6778071	BUTTON BASE (L)
45	7783381	SPECIAL SCREW
46	7351191	RECORD BUTTON LEVER
47	6548471	SPRING
48	7364491	PLAY BUTTON LEVER
49	6548462	SPRING
50	6521112	SPRING
51	7351151	REWIND BUTTON LEVER
52	6521041	SPRING
53	7351181	FF BUTTON LEVER
54	6548461	SPRING
55	6548462	SPRING
56	6356231	BELT
57	7351141	STOP BUTTON LEVER
58	6548471	SPRING
59	7351642	PAUSE LEVER ASSEMBLY
61	6757261	PAUSE LEVER
62	6774282	PAUSE STOPPER
63	6774341	ACTUATOR SHAFT (B)
64	6774281	ACTUATOR SHAFT
65	7551771	BUTTON SHAFT
66	7774646	E RING-3.2MMD
67	6549541	RC SPRING

EXPLODED VIEW (TN-33ZHC-558 chassis)



Note : Components marked without numbers in this drawing are not specified as replacement parts.

EXPLODED VIEW (Cabinet)

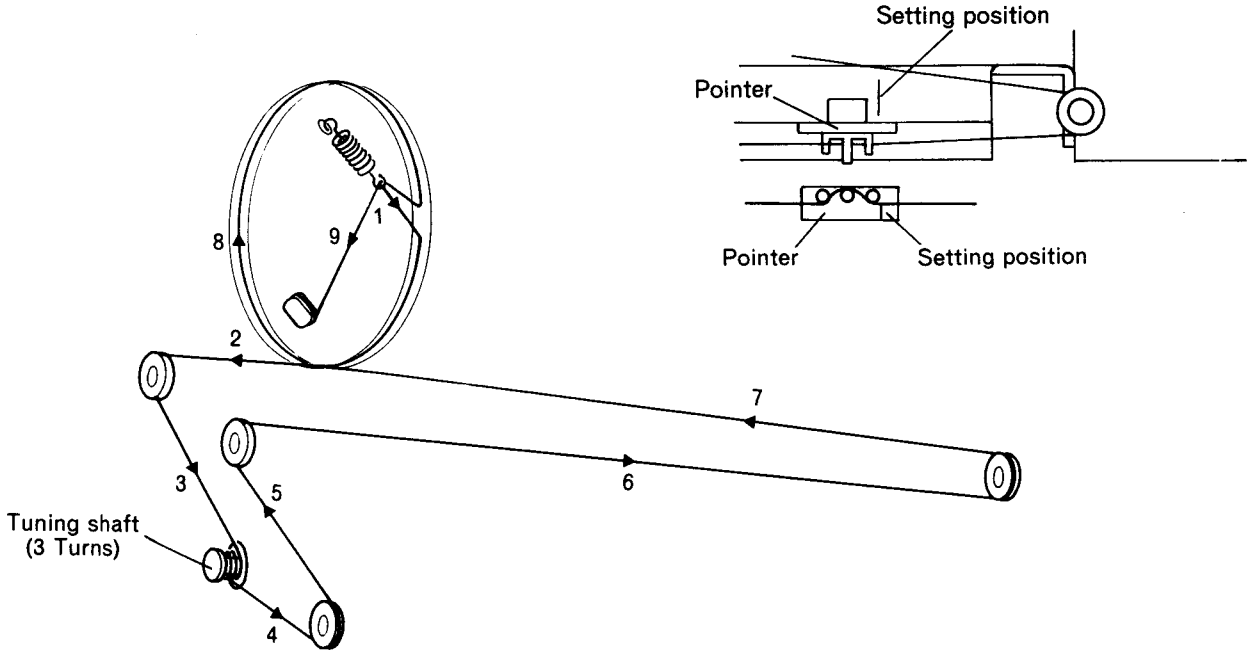


Note : Components marked without numbers in this drawing are not specified as replacement parts.

SYMBOL-NO	P-NO	DESCRIPTION
		MISCELLANEOUS
68	6284421	TUNING KNOB
69	6276471	KNOB (AM BAND, FUNCTION, RIF/FM MODE, TAPE, SP./MIC)
70	6285863	KNOB (MIXING)
71	7781147	BT BIND HEAD SCREW-3MMDX30MM
72	7781146	BT SCREW-3MMDX20MM
73	8699408	BT BIND HEAD SCREW-3MMDX8MM (BLACK)
74	8744405	BIND SCREW-3X5MMD
75	6335281	SIDE HANDLE
76	6010542	TOP PANEL ASSEMBLY
77	7582131	TUNING SHAFT
78	6344051	ROLLER
79	7564281	ROLLER PIN
80	6393181	POINTER
81	6423491	PULLEY
82	6316231	SPRING M
83	6095471	CASSETTE LID ASSEMBLY
84	6779551	DAMPER ASSEMBLY
85	7362631	LID SPRING HOLDER
86	6549782	LID SPRING
87	6276481	SLIDE KNOB (VOLUME,G/E)
88	6779351	SLIDE KNOB HOLDER
89	5752721	TELESCOPIC ANTENNA
90	7362601	TELESCOPIC ANTENNA BRACKET
91	8744410	BINDING SCREW-3MMDX10MM
92	6334905	HANDLE
93	6779341	HANDLE ARM
94	7781582	FLAT SCREW-3MMDX10MM(BLACK)
95	7362621	HANDLE BRACKET (L)
96	7362622	HANDLE BRACKET (R)
97	8744405	BIND SCREW-3X5MMD
98	6010562	FRONT CASE ASSEMBLY
99	5407721	SPEAKER-16CM
100	7781133	BT SCREW-3MMD
101	5406775	SPEAKER-12CM
102	7781133	BT SCREW-3MMD
103	5419073	SPEAKER-TWEETER
104	5421501	BUILT-IN MICROPHONE
105	6570221	MICROPHONE HOLDER
106	8699408	BT BIND HEAD SCREW-3MMDX8MM (BLACK)
107	6010583	REAR CASE ASSEMBLY [FOR E]
107	6010584	REAR CASE ASSEMBLY [FOR E (BS)]
108	6175151	BATTERY LID ASSEMBLY
109	0681129	SPRING A
110	7450346	BATTERY TERMINAL
111	6779331	BATTERY HOLDER
112	6520871	BATTERY SPRING
113	8699408	BT BIND HEAD SCREW-3MMDX8MM (BLACK)
114	7362651	RECORD LEVER (B)
115	7362661	RECORD LEVER (C)
116	7540374	SPECIAL SCREW
117	8699412	BIND TAPPING SCREW-3MMDX12MM(BLACK)
118	8699408	BT BIND HEAD SCREW-3MMDX8MM (BLACK)
119	7781148	BT SCREW-3MMDX50MM
120	6060911	CASSETTE BUTTON
121	7362642	RECORD LEVER (A)
122	0741304	BIND SCREW-2.6MMDX4MM
123	7780904	PAN HEAD SCREW-1.7MMDX8MM
		CAPACITORS
CT151-156	0283565	VARIABLE CAPACITOR
C102	0208125	CERAMIC (RESISTOR SHAPE) 4.7PF+-5%
C110	0246446	CERAMIC, DISCAL CAPACITOR 18PF+-10% NP=0
C852L	0209021	CERAMICDISC(RESISTORSHAPE)1500PF+-10%
C855L	0209023	CERAMIC DISC (RESISTOR SHAPE) 3300PF +-30%
C857L	0209024	CERAMIC DISC (RESISTOR SHAPE) 4700PF +-30%
PVC	5052812	VARIABLE CAPACITOR
		RESISTORS
RT301	5007682	SEMI VARIABLE 5KOHM
RV401	5001241	VARIABLE RESISTOR 10KOHM(A)
RV801LR	5020173	VARIABLE RESISTOR 10KOHM(A)
RV851LR	5027261	VARIABLE RESISTOR 100KOHM(B)
RV852LR	5027261	VARIABLE RESISTOR 100KOHM(B)
RV853LR	5027261	VARIABLE RESISTOR 100KOHM(B)
RV854LR	5027261	VARIABLE RESISTOR 100KOHM(B)
RV855LR	5027261	VARIABLE RESISTOR 100KOHM(B)
R301	0111033	METAL OXIDE RESISTOR 820HM+-5%,1W
R903	0111035	OXIDE METAL FILM 1000HM+-5%
		SEMI-CONDUCTORS
D101-102	5331851	DIODE 1N4148
D103	5330661	DIODE SILICON 1S2790
D301	5331015	DIODE HZ-5C1
D401LR	5331851	DIODE 1N4148
D402LR	5331851	DIODE 1N4148
D601-605	5331992	DIODE 1N4001
D801-803	5331851	DIODE 1N4148
D804-806	5330572	DIODE SILICON 1S2473HC
IC201	5368011	IC TA7640AP
IC301	5369941	IC AN7420
IC401	5355561	IC BA343
IC501	5355901	IC UPC1278H
IC502	5364271	IC AN7161N
IC901	5355471	IC AN6864
LED301	5380593	LED LN417RP
LED901-905	5380951	LED LND5263P
Q101-102	0573510	TRANSISTOR 2SC535B

SYMBOL-NO	P-NO	DESCRIPTION
		SEMI-CONDUCTORS
Q151	5322571	TRANSISTOR HIT9011H
Q401LR	5322591	TRANSISTOR HIT9014N-C
Q402	5320813	TRANSISTOR 2SC945P
Q403	5322591	TRANSISTOR HIT9014N-C
Q501	5322522	TRANSISTOR HIT8050C
Q502	5322791	TRANSISTOR 2SC1684R
Q801LR	5322791	TRANSISTOR 2SC1684R
Q802LR	5322791	TRANSISTOR 2SC1684R
		TRANSFORMERS
⚠PT	5213451	POWER TRANSFORMER(FOR E)
⚠PT	5213452	POWER TRANSFORMER (FOR E(BS))
T101	5148162	FM IF TRANSFORMER
T201	5132222	AM IF TRANSFORMER
T202	5148164	FM IF TRANSFORMER
T203	5132221	AM IF TRANSFORMER
T401	5260481	OSCILLATOR COIL
		COILS
L101	5127083	FM RF COIL
L102	5127087	CHOKE COIL
L103-104	5127084	CHOKE COIL
L151	5124022	SW ANTENNA COIL
L152-153	5110593	FERRITE ANTENNA
L154	5124031	SW OSCILLATOR COIL
L155	5121001	MW OSCILLATOR COIL
L156	5121002	LW OSCILLATOR COIL
L157	5127084	CHOKE COIL
		MISCELLANEOUS
⚠	5746159	POWER CORD(FOR E)
⚠	5746342	POWER CORD (FOR E(BS))
CF201	5160211	CERAMIC FILTER CF107A
⚠F601	5721376	FUSE 2A
⚠F602	5721375	FUSE 160MA (FOR E(BS))
J401LR	5673511	JACK-3.5MMD (MIC)
J402LR	5676481	PIN JACK (LINE OUT)
J403LR	5676481	PIN JACK (LINE IN)
J404	5673511	JACK-3.5MMD (MIX. MIC)
J501	5673552	HEADPHONE JACK
J601	5678072	DC JACK
S201	5604606	LEVER SWITCH (AM BAND)
S401	5604603	LEVER SWITCH (FM MODE/RIF)
S402	5622471	SLIDE SWITCH (REC/P.B.)
S403	5604602	LEVER SWITCH (TAPE)
S501	5604606	LEVER SWITCH (FUNCTION)
S502	5604608	LEVER SWITCH (SPEAKER/INNER MIC)
S503	5601271	MICRO SWITCH (RADIO/TAPE)
S601	5622341	SLIDE SWITCH (AC/BATT.)

DIAL CORD STRINGING



Stringing Method

1. Turn the pulley fully clockwise.
2. String the dial cord in the direction of the arrow(Nos. 1–9).
3. Set the dial pointer to setting position.

NOTE FOR SCHEMATIC DIAGRAM

1. Voltage measured at base of chassis with minimum volume control and no signal.
2. Nomenclature of Resistors and Capacitors.

R101 150-RS·1·K

	Circuit No.
Value	No indicated Ω(Ohm) M : 1000 kΩ
Tolerance	No indicated ±5% K : ±10% M : ±20%
Wattage	No indicated ¼W
Sort	No indicated Carbon film RC : Composition RW : Wire wound RS : Oxide metal film RN : Fixed metal film

C101 0.001·M

C102 0.1/16

	Circuit No.	
Value	No indicated μF P : PF	
Tolerance	No indicated ±10% J : ± 5% M : ±20% Z : +80%, −20% D : ±0.5pF C : ±0.25pF	
Sort		Ceramic
		Electrolitic
		Mylar
		Polyester
		Styrol
Voltage	No indicated 50WV	

3. Be sure to make your orders of resistors and capacitors with value, voltage, tolerance and sort.
4. When replacing capacitors marked with ✻, use specified ones stated on parts list since required temperature characteristics.

P3×8, W2.6

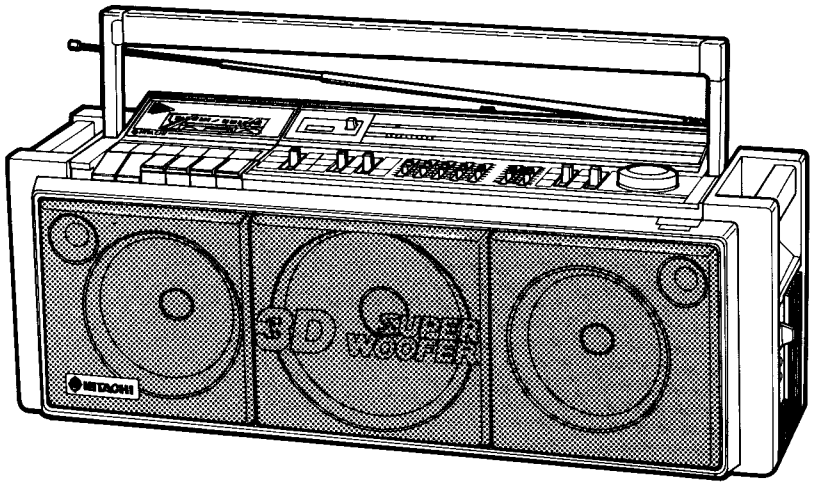
Type of head					
P	Pan head screw		BT	Binding head tapping screw	
F	Flat countersunk head screw		BL	Bolt	
B	Binding head screw		W	Washer	
T	Round head tapping screw		E	"E" ring	
Length (L mm)					
Diameter (D mm)					

When ordering hardware excluding stated on these lists, be sure to make your orders with type and size.

HITACHI
• SERVICE MANUAL

TY	No. 522 E

TRK-3D7MK II
E, E(BS)



This unit is the same as the TRK-7620E/E (BS) which is released previously, except the appearance parts. For servicing, refer to the TRK-7620E/E (BS) Service Manual (TY No. 2151E).

REPLACEMENT PARTS LIST

The numbers in the SYMBOL NO. column correspond to those in the exploded view in the TRK-7620E/E (BS) Service Manual.

SYMBOL NO.	NEW PARTS NO.	DESCRIPTION	ORIGINAL PARTS NO.
76	4041822	Top panel assembly (83, including cassette lid assembly)	6010542
83	4030614	Cassette lid assembly	6095471
98	4041842	Front case assembly	6010562
107	4041863	Rear case assembly [for E] (108, including battery lid assembly	6010583
107	4041864	Rear case assembly [for E (BS)] (108, including battery lid assembly)	6010584

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

FM/SW/MW/LW RADIO CASSETTE TAPE RECORDER

July 1986 **TOYOKAWA WORKS**

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